RS-840 Model

REMOTE ENGINE STARTING SYSTEM

OPERATING INSTRUCTIONS

INTRODUCTION

Congratulations on your choice of a Crimestopper CoolStart remote engine starter! This installation Handbook covers the RS-840 Model Remote Start & Keyless Entry System.

IMPORTANT INFORMATION: Primary and Optional Features
-PRIMARY: These are features that must be connected in order for the system to operate properly i.e. Remote Start connections, Flashing lights, Brake Reset. For programming, the hood pin and program button are required.

-OPTIONAL: These features are to be connected only if desired or agreed upon by the customer and the installing dealer i.e. Anti-Grind, Turbo timer, etc. These features may also require additional parts and/or labor fees. Consult with your installer beforehand to be sure of what is going to be installed with your particular system.

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# OPERATION CAUTIONS & WARNINGS

CRIMESTOPPER SECURITY PRODUCTS, INC. *and its* **VENDORS** *shall not be liable for any accident resulting from the use of this equipment. This system is designed to be professionally installed into a car or vehicle in which all items, such as parking brake and all associated components, door switches, transmission shift linkage, throttle linkage, and all engine safety features, are in perfect working condition.*

DO NOT install the Remote Engine Starting System on MANUAL TRANSMISSION vehicles. *If accidentally left in gear the vehicle could become a self-propelled threat to life and property.*

IT IS ABSOLUTELY THE OWNER'S SOLE RESPONSIBILITY TO: *A) Understand the operation of this system and its safety features. B) Check for proper operation of the system prior to accepting delivery of the vehicle from the installation facility. C) Check and maintain the condition of the vehicle and all items relative to the proper operation of this system and its safety features. D) Always leave the doors and windows closed and locked to protect against accident and theft.*

DO NOT remote start the vehicle in a closed garage. *Make sure that the garage door is open or there is adequate ventilation. Failure to observe this rule could result in* **injury or death** *from poisonous Carbon Monoxide fumes.*

REMOTE CONTROL DIAGRAM

#2
UNLOCK

#1
LOCK

FLASHLIGHT

VEHICLE #2

#3
TRUNK
(AUX.)

#4
ENGINE
START/STOP
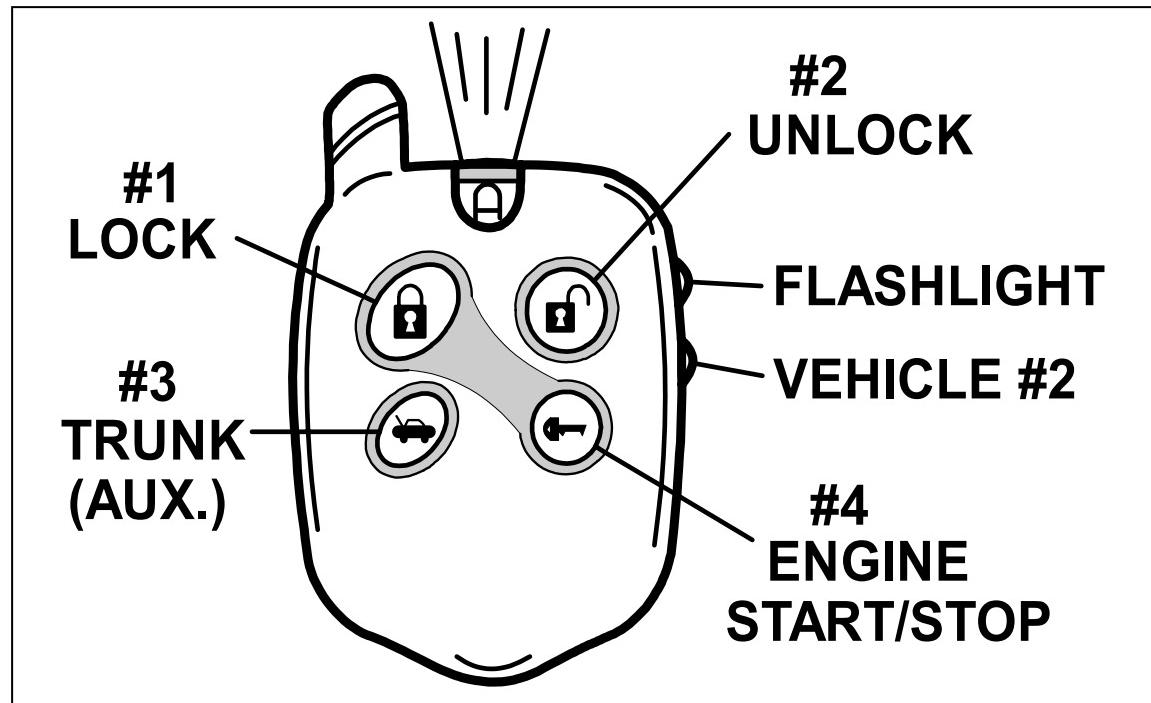
RS-840 SYSTEM

The transmitter supplied with the RS-840 system has a total of 6 buttons. The button configuration of the RS-840 is Factory-set and unchangeable. See Page 11 for additional information on how to use your remote to operate a second vehicle equipped with an RS-840 or other CoolStart™ system.

"COOLFLASH" BLUE LED FLASHLIGHT

Your remote control is equipped with a handy mini LED "CoolFlash" flashlight. Press the upper side button of your remote control to active the remote's LED indicator as a flashlight.

NOTE: REMOTE START BUTTON DELAY

There is a deliberate delay built into the system on the remote start button to help prevent accidental remote starting from the remote being in your pocket or purse. During normal use, push the button deliberately for at least a 1-second. If you press the remote start button too quickly, the system may not accept the signal to start the engine.

REMOTE ENGINE CONTROL

REMOTE ENGINE STARTING - SUCCESSFUL START:

1) Press the remote start button for at least 1 second.
2) Parking lights flash once; return solid, and the Ignition/Accessory circuits turn on.
3) After a few seconds the Starter Motor engages, Parking lights and Accessory circuits will turn off while cranking.
4) Engine Starts and Runs. Parking Lights and Acc turn back on, Doors Lock.
5) Engine will remain running for programmed run time until it is reset with Brake pedal.
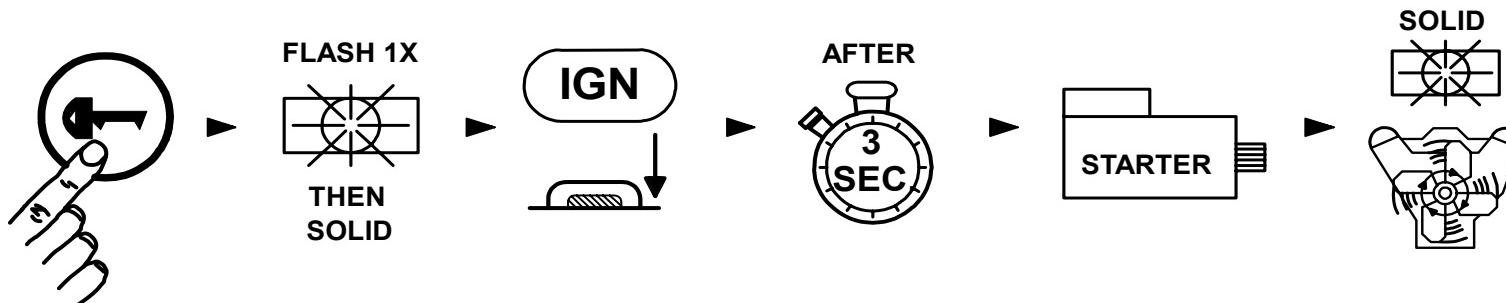
REMOTE ENGINE STARTING - UNSUCCESSFUL START

In the event that the engine does not start on the first attempt, the system shuts down for a few seconds, then attempts to restart the engine a 2nd and 3rd time. For hard starting engines, the unit will allow a starter crank time of up to10 seconds maximum. This should provide ample cranking time for difficult starts, but is limited to 10 seconds to help prevent damage to the starter from over cranking.

1) If the engine starts on 2nd or 3rd attempt, see steps 4 & 5 above of "Successful Start".
2) If Third attempt fails to start engine, the system will turn off and doors will remain locked. *NO FURTHER ATTEMPTS WILL BE MADE AUTOMATICALLY*

TURNING OFF A REMOTE STARTED ENGINE:

1) Engine is running in Remote Start (Parking lights ON).
2) Press and release the remote start button
3) Engine & parking lights OFF.

REMOTE START *RUN TIME RESET*:

You can reset the engine-run timer to allow for more running time after remote start has already occurred using the remote control. After a successful remote start, press both the Lock & Unlock buttons together for at least 2 seconds. The parking lights will flash 3 times and the internal engine timer will reset back to zero minutes.

# REMOTE ENGINE CONTROL

ENTERING YOUR REMOTE STARTED VEHICLE:

1) With engine running, Remote Unlock system or open door with key.
2) Enter vehicle and be careful not to step on brake pedal! (Remote Start Reset)
3) Turn Ignition to ON/RUN position, then press brake pedal to reset the Remote Starter & Shift out of park.
4) Remote starter will reset instantly when the brake is pressed. Parking lights will turn off and the ignition key is now controlling your vehicle.

IDLE DOWN MODE:

This mode allows the unit to take over operation of the parked vehicle while the ignition key is removed and you exit the vehicle. The vehicle is put into a remote running condition before you exit and it will remain running for the programmed run time or until you come back. Example: You pull up to a convenience store for a quick stop, "Idle Down" mode keeps engine running when you exit the vehicle, (with keys in hand) remote lock doors. When you return, unlock, turn ignition ON and drive away.

IDLE DOWN MODE - EXITING THE VEHICLE:

1) With vehicle engine running with key, press the Remote Start button for at least 1 second.
2) Parking Lights will turn ON.
3) Doors will unlock, or if brake pedal is being depressed, doors will unlock when it is released.
4) Turn OFF Ignition and remove key. Engine should remain running.
5) Exit vehicle then remote lock doors if desired.
6) Engine will remain running for programmed run time or until you return (whichever comes first).

SOLID

UNLOCK

IGN

OFF
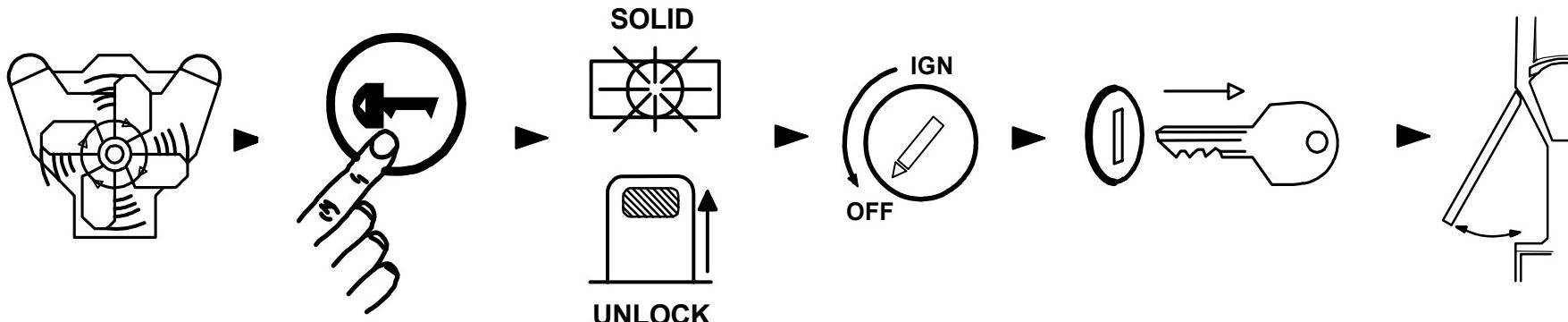
REMOTE ENGINE CONTROL

INFINITY RUN MODE

This mode can only be activated when "Idle Down" procedure. The Infinity Run mode allows the vehicle engine to remain running *INDEFINITELY after the programmed run time elapses*. This mode will allow the vehicle to be left running and unattended *without* the ignition key in the switch preventing the vehicle from being stolen. This mode can be beneficial to law enforcement or commercial vehicles that need to remain running unattended for long periods of time.

INFINITY RUN MODE – EXITING THE VEHICLE:

1) With vehicle engine running with the key, press the Remote Start button for at least 1 second, pause a few seconds, then press and release the remote start button a second time.
2) Parking Lights will start flashing, and doors will unlock.
3) Turn Ignition switch OFF, remove key and exit the vehicle. Engine should remain running.
4) The vehicle's parking lights will flash for the programmed run time of 12, 24, or 36, or 48 minutes and then switch to solid while motor runs indefinitely or until fuel supply runs out.

ENTERING A VEHICLE DURING IDLE-DOWN or INFINITY RUN MODES:

See "Entering Your Remote Started Vehicle" on Last page.

SELECTABLE HOURLY COLD-START MODE (1-4 HOURS)

This mode allows the vehicle to be programmed to self-start every 1, 2, 3 or 4 hours and run for the programmed run time. This can be helpful during extremely cold conditions where engine fluid freeze-up is a concern. ***THE VEHICLE MUST BE OUTDOORS OR IN A WELL VENILATED AREA!*** Once this mode is set, the unit will start at the programmed hourly interval and run for the programmed run time. To reset this mode, either start the vehicle with the key or the remote control.

**SELECTABLE HOURLY COLD-START MODE – EXITING THE VEHICLE:**

1) Engine should be running with the Key. Press the Remote Start button for at least 1 second. Lights will turn on signaling the remote start has turned on and doors will unlock.
2) Within 10 seconds press and release the valet/program button once for each hourly increment (1 time = 1hour, 2X = 2 hours, 3X = every 3 hours, 4X = every 4 hours).
3) Parking Lights will turn off once the button is pressed and flash for each consecutive button press.
4) Turn Ignition switch OFF, remove key and exit the vehicle. Engine should remain running.
5) Once outside the vehicle, press and release the remote start button to turn off engine. The parking lights will flash the number of times indicating the hourly increment for final confirmation.
6) The vehicle will start by itself at the selected hourly increment until driven with key or started by the remote.

TURBO TIMER MODE (OPTIONAL)

The optional Turbo Timer mode allows the CoolStart system to keep a Turbo or Turbo Diesel vehicle running for 1 to 5 minutes [selectively] after you remove the key, exit the vehicle, and lock the doors remotely. This is handy for turbo cool-down without the need for expensive turbo timers. This mode requires the use of an extra part called a momentary switch/button that is not included with the kit. Check with your installer about adding this feature. *NOTE: The turbo timer button will also trigger a remote start if it is inadvertently pressed when the vehicle is not running. Please note this when installing the button and choose a location out of harm's way.*

1) Engine should be running with the key.
2) Press and hold down the brake pedal.
3) Press your "Turbo Timer" button 1 to 5 times for each minute of run time you desire. (1 press = 1 min.)
4) As you release the brake pedal, your system will confirm by flashing the lights the same number of times the button was pressed.
5) Turn Ignition switch OFF, remove key and exit the vehicle. Remote lock your doors for safety. The engine should remain running for the selected number of minutes.

RUNNING   **PRESS AND HOLD BRAKE**   **PRESS TURBO TIMER BUTTON 1-5 TIMES**   **RELEASE BRAKE**

LIGHTS FLASH 1-5X   **REMOVE KEY**   **EXIT VEH.**   **REMAIN RUNNING 1-5 MIN.**
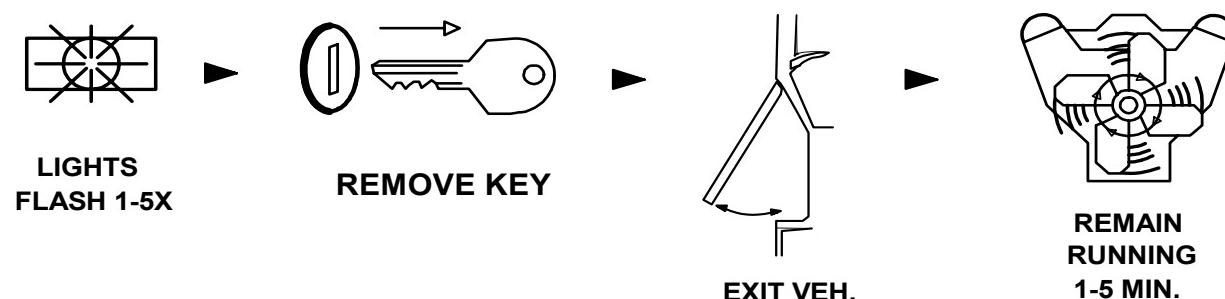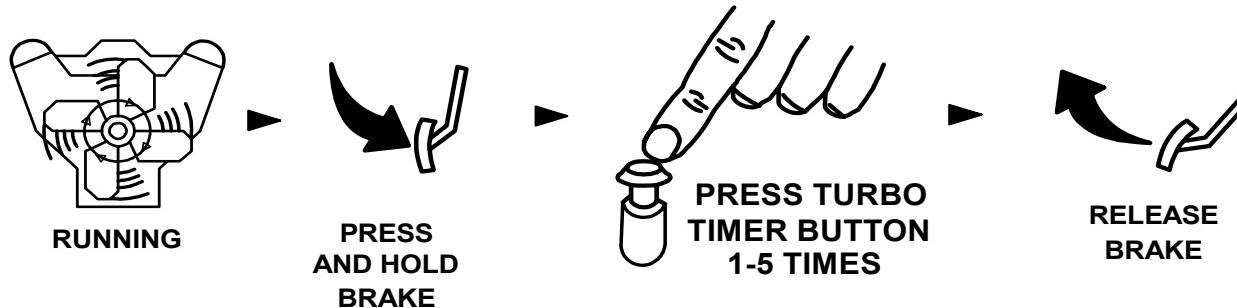
CONVENIENCE AND SAFETY FEATURES

KEYLESS ENTRY (POWER DOOR LOCK CONTROL, Optional)

This system enables you to remotely lock and unlock the vehicle's doors (if equipped with power locks) via remote control for safety and convenience. Note: This feature may require extra labor and/or parts to install. Press the Lock or Unlock transmitter button as you leave or come near the vehicle. Parking lights will flash once for lock and twice for unlock. If vehicle is running by the remote start system, the lights will flash, but return back to solid.

AUTO LOCK/UNLOCK

The Auto Lock feature controls whether the doors will automatically lock/unlock on your vehicle when driving or with turning the Ignition ON/OFF. If the Auto Lock feature is turned on, and your system is in "Tach" mode, then the doors should automatically lock as the engine RPM's increase (driving). If the Auto Lock feature is turned on, and your system is in "Smart Tachless" mode, then the doors will lock a few seconds after the Ignition is turned on. When the Auto Lock feature is turned on, the system will always unlock the doors when the Ignition is turned off. With this feature turned OFF, the system will not automatically lock or unlock the vehicle. See your installer for programming information on this feature.

REMOTE TRUNK RELEASE (Aux Output, Optional)

This feature, if installed, will remotely release a factory electronic trunk or hatch through the transmitter. To operate, press and release the Trunk button (#3) to remotely open trunk or hatch. Trunk Pop may require extra labor and/or parts to install.

CAR FINDER ASSIST

To assist in locating your vehicle in a parking lot or structure at night, press the Lock Button on the remote for more than 2 seconds. The vehicle will flash the parking lights for 1 minute. Reset by pressing the lock/unlock button.

VALET MODE (Program button required)

Before servicing your vehicle or handing the keys over to a Valet we recommend putting the unit into valet mode. The remote start function WILL NOT operate when in Valet mode. To enter Valet mode, turn the key to the ON position, press and hold Program/Valet Button for 5-6 seconds. The LED will turn on solid and the system is now in valet. Perform this procedure again to exit of Valet mode. The keyless entry will still function normally while in valet mode. In the event of a lost or broken transmitter, perform this step to override the Starter Disable (if installed).

ANTI-GRIND (Optional, relay not included)

This Optional feature prevents the user from accidentally grinding the starter if the Ignition key is turned too far to the start position while engine is already running from the remote starter. The Anti-Grind requires an external relay.

CONVENIENCE AND SAFETY FEATURES

HOOD OPEN SAFETY (Requires grounding hood pin installation)
This feature prevents the engine from being remote started when hood is open. Helps eliminates risk of injury to someone working under the hood of the vehicle with a properly working hood pin installed. If Remote Start button is pressed with the hood open, the unit will not attempt a start.

BRAKE PEDAL RESET
Prevents starting or shuts off a remote started vehicle when this circuit is active or activated. Prevents unauthorized tampering. This circuit shuts the system down immediately when brake pedal is pressed if the key is not in ignition and turned to the ON position.

OEM ALARM INTERFACE
This feature is designed to Disarm and Re-arm Factory equipped security systems in conjunction with remote start and keyless entry (if needed for your vehicle). This feature will maintain the original integrity and security of your vehicle's factory equipped systems before, during, or after remote start.

NOTE:
When changing, charging, or jumpstarting the vehicle's battery we recommend removing the main power fuses located on the heavy gauge RED wires near the remote start module.

TRANSMITTER PROGRAMMING

Note: All transmitter codes must be learned at time of programming!! The CoolStart system learns up to 4 different transmitter codes.

1. Open Hood (If no hood pin installed with your system, then you must ground the Gray Hood pin wire).
2. Turn key to the ON position. (Do not start vehicle)
3. Press Programming button 4 times, then after a few seconds the unit flashes the parking lights 4 times.
4. Press Lock Button #1 of the transmitter to be coded. You should get 2 light flashes indicating the unit is waiting for a 2nd code, then press button #1 of a second transmitter, the unit will flash 3 times indicating its waiting for the 3rd code and so on. If all 4 codes are learned, the unit will automatically exit code learning mode, otherwise turn key off and close hood. See diagram next page.

TRANSMITTER PROGRAMMING

TRANSMITTER PROGRAM DIAGRAM:

(GRAY WIRE GROUNDED) ▶ OFF / IGN ▶ **PRESS 4X's** ▶ **WAIT FOR 4 FLASHES** ▶

PRESS LOCK BUTTON ▶ **FLASH 2, 3, or 4 X's** ▶ OFF / IGN **COMPLETE**
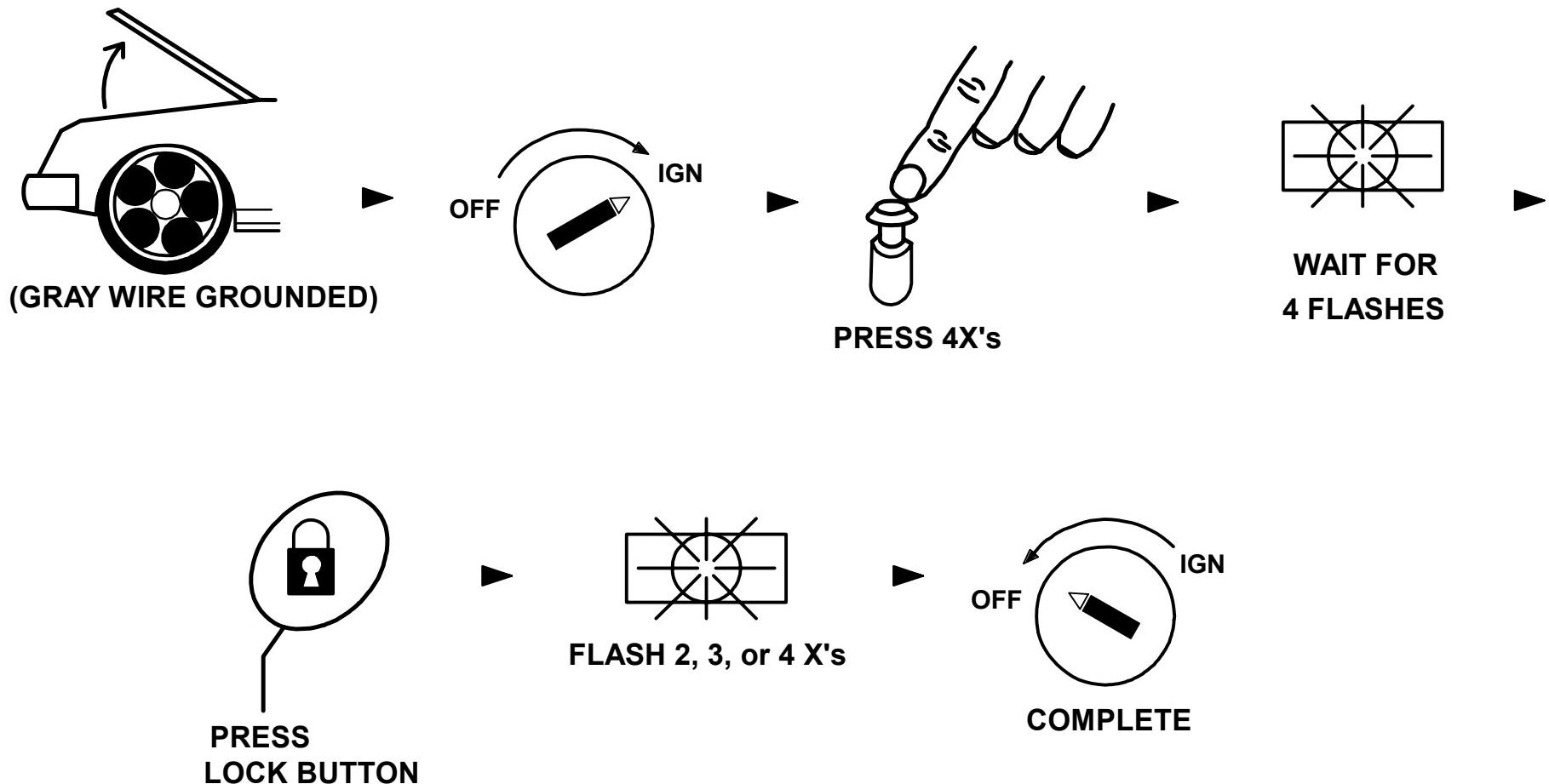
The RS-840 system can be used for 2 vehicle operation. A single remote can control a second vehicle with an RS-840 or other CoolStart system installed. There are some exceptions. See "Multi-Vehicle Notes" section below.

Pressing the lower side button on your remote transmitter switches your remote to car #2 mode for 3-seconds. You can continue operating Vehicle#2 functions within this 3-second window as long as you keep pressing buttons. Once the 3-second time period has elapsed, your remote will switch back to Vehicle #1 (primary vehicle).

RS-840 Remote

VEHICLE #2
Press lower side button first, then you have 3 seconds to control vehicle #2.
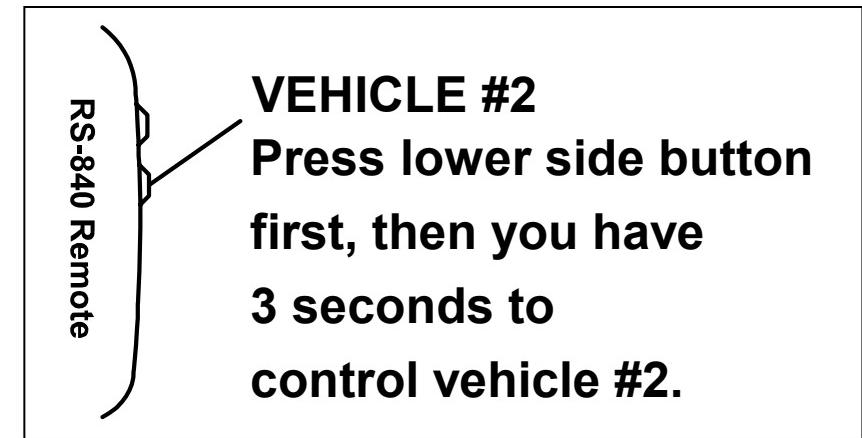
See diagram at right on how to switch your remote(s) to vehicle #2 operation. To set up the 2-Vehicle operation you must first program your remotes to Vehicle #2. Follow the "Transmitter Programming" steps at the second vehicle and learn YOUR remote, along with vehicle #2's existing remotes.

MULTI-VEHICLE NOTES:
(1) The RS-840 remote control will operate other CoolStart systems such as the RS-900, RS-830 and RS-810. When controlling an RS-810 one-button system the RS-840's Unlock button will work as the "start" button on an RS-810 system.
(3) Other CoolStart remotes, such as the RS-900 system can be programmed to control your RS-840.

TROUBLESHOOTING: "BEFORE YOU CALL" SECTION

UNIT WILL NOT ATTEMPT A START (KEYLESS ENTRY FUNCTIONS NORMALLY):
The unit is in Valet mode. Turn IGN ON, press and hold valet/programming button for 5-6 seconds then turn key off. Unit is now out of valet mode and should remote start. If optional LED is installed, then it will be on solid when in Valet.

SYSTEM IS UNSUCCESSFUL AT REMOTE START DURING EXTREME COLD CONDITIONS:
Please be aware that during sub-freezing conditions your remote starter may take more that one attempt to start, or it may not successfully start the vehicle after 3 attempts. During these conditions the vehicle may not properly start even using the key, therefore trying to start by the remote would also be unsuccessful.

UNIT FLASHES LIGHTS ONCE AND WILL NOT ATTEMPT A START:

The unit senses a fault at the Brake (Purple wire is active) or the Hood is OPEN (Gray wire grounded). This is a safety feature of the unit. Check installation for faults and make sure hood is closed and latched and brake wire is not active.

UNIT CRANKS VEHICLE BUT ENGINE NEVER STARTS:

- In some vehicles, there may be a Factory anti-theft system that will not allow the engine to run without the key in the ignition. These systems may include Factory Security Modules, GM Passkey®/Passlock®, and RF Transponder systems (Ford P.A.T.S.®). Many late 1990's through 2005 vehicles include some type of Anti-Theft system which may require a bypass module.
- The vehicle may have more than one Ignition or Accessory circuit that requires power for the vehicle to start. This is common on some GM/Toyota vehicles.

VEHICLE STARTS BUT CHECK ENGINE LIGHT COMES ON OR ENGINE RUNS BADLY:

- Many 1995-UP General Motors cars/trucks require a secondary ignition circuit for the Transmission computer and other on board systems. If the vehicle is started without this wire energized, there may be a "Check Engine" or "Service Engine" light in the dash. This may cause damage if the vehicle is driven in this condition. Be sure to check for an additional WHITE (or sometimes GREEN) Ignition wire on GM cars and trucks. Connect the Pink/White IGN#2 wire to this circuit in the vehicle.
- Some Vehicles (Commonly Nissan) require 2 Start (Cranking) circuits for the vehicle to run properly. If this is the case, then use the PINK/WHITE output of this system to power the Starter #2 circuit of the vehicle. See Jumper pin diagram for configuration. Note that the secondary starter wire may be a smaller gauge wire than the primary starter wire.

NO RESPONSE FROM REMOTE TRANSMITTER:

- Check antenna connection: Antenna must be plugged in (3 pin black plug on side of module).
- Press remote control Lock or Unlock button several times in succession to check if remote is out of sync with receiver.
- Verify if remotes are programmed to module, otherwise perform transmitter programming steps.

CRIMESTOPPER

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